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1. [MDA15-018: Multi-Object Payload Deployment](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Future weapon systems may be required to deliver multiple payloads. A key technological driver for multi-object payload vehicles is the restraint and deployment method. This topic seeks innovative solutions to reliably restrain and release the payloads with precise deployment dynamics. Restraint technology must withstand high axial shock and acceleration loads. Payload deployment dynamics should c ...

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2. [MDA15-020: Interceptor Thermal Protection Systems](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Objectives for future missile defense applications include increased kinematic reach. One method of maximizing kinematic reach is through inert mass reduction. Interceptors require a significant amount of thermal protection system materials to survive fly-out trajectories. An example of current state-of-the-art material for thermal protection systems has a density of approximately 1.72 g/cm³ (0.0 ...

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3. [MDA15-022: Low Light Short Wave Infrared Focal Plane Arrays](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

This topic focuses on enabling next generation sensors and improving FPA performance beyond the current state-of-the-art to support future missile defense applications. This topic seeks low noise, high sensitivity FPA technologies that detect very low signal levels. Current FPA technologies for imaging in low-light conditions at SWIR wavelengths are limited by poor quantum efficiency and/or poor n ...

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4. [MDA15-023: Solid State High Power Amplifier for Communications](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The goal of this topic is to investigate solid state power amplifier (SSPA) technologies that meet or exceed the output power (greater than 1 kW), duty factor, operating frequency (K-band: 20-22 GHz), reliability, sustainability, and supportability achievable with existing traveling-wave tube amplifiers as a potential replacement for klystron tubes in future communication systems. Klystron tube tec ...

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5. [MDA15-024: Non-Destructive Testing Methods for Detecting Red Plague](#)

[Within an Insulated Silver Plated Copper Conductor](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Red Plague is a galvanic corrosion of silver coated copper materials which occurs when the silver coating does not adequately cover the underlying copper and is exposed to water by either direct contact or condensation. Red Plague causes degradation of the anodic copper while leaving the cathodic silver plating intact. More details for causes and current mitigation provided in in SAE-ARP-6400, the ...

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6. [MDA15-025: Passive Inter-Modulation RF Emissions Utilized for Identifying Galvanic Corrosion in Metal Structures](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Corrosion is a major concern that causes premature deterioration or failure at damage sites in metal structures thereby necessitating monitoring, maintenance, repair or replacement. PIM emissions are a known problem for ships and land-based cellular systems where metal structures simultaneously receive RF radiation on two or more different signal frequencies. The received RF signal frequencies may ...

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7. [MDA13-T001: Decision Making under Uncertainty](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Analyze the impact of sensor measurement uncertainties on centralized data fusion and design optimal strategies to mitigate the associated target classification. DESCRIPTION: This topic solicits innovative approaches to characterize target sensor measurement uncertainties and to design effective sensor architectures to aid uncertainty mitigation (e.g. whether sending measurements or ...

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8. [MDA13-T002: Micro-Particle Debris Characterization from Hyper-Velocity Impacts](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop innovative, laboratory-based methods to measure and characterize (i.e. size, number, temperature etc.) the small particles less than 1 cm generated in hyper-velocity impacts. Those methods should provide benchmark data for physics-based impact debris prediction codes aimed at modeling electro-optical / infra-red (EO/IR) impact flash signatures. The methods may include sensor ...

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9. [MDA13-T003: Enhancement of Ballistic Missile Defense System Level Simulation Operations Through Multi-core Processing](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop technology to enhance the Missile Defense Agency's (MDA) Ballistic Missile Defense System (BMDS) simulation operations through the employment of multi-core processing environments. DESCRIPTION: With the introduction of the Objective Simulation Framework (OSF), the BMDS enterprise-level simulation has the potential to present a more realistic and complex missile defense sc ...

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10. [MDA13-T004: Event Integration & Execution Checklist Automation in Support of Improved Situational Awareness and Knowledge Dissemination \(AutoCheck\)](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative distributed software package that generates, tracks and correlates Ballistic Missile Defense System (BMDS) event integration and execution tasks in order to improve situational awareness and user accuracy for event stakeholders. DESCRIPTION: AutoCheck will be of potential benefit to almost every DoD entity, including all the service components. Any activity t ...

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